

Status update on the James Webb Space Telescope project Dr. Jane Rigby

The James Webb Space Telescope (JWST) is a large (6.6 m), cold ( $<50$  K), infrared (IR)-optimized space observatory that will be launched in ~2018. The observatory will have four instruments covering 0.6 to 28 micron, including a multi-object spectrograph, two integral field units, and grisms optimized for exoplanets. I will review JWST's key science themes, as well as exciting new ideas from the recent JWST Frontiers Workshop. I will summarize the technical progress and mission status. Recent highlights: All mirrors have been fabricated, polished, and gold-coated; the mirror is expected to be diffraction--limited down to a wavelength of 2 micron. The MIRI instrument just completed its cryogenic testing. STScI has released exposure time calculators and sensitivity charts to enable scientists to start thinking about how to use JWST for their science.